119:237906 HCA Full-text ANElectrostatographic liquid developer ΤI IN Kato, Eiichi PA Fuji Photo Film Co., Ltd., Japan SO Jpn. Kokai Tokkyo Koho, 96 pp. CODEN: JKXXAF DT Patent LA Japanese FAN.CNT 1 PATENT NO. KIND DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 04288558 A2 19921013 JP 1991-77109 19910318

JP 2916546 B2 19990705

PRAI JP 1991-77109 19910318

The title electrostatog. liquid developers is a dispersion of resin particles in a nonag. solvent of elec. resistivity $\geq 109~\Omega \cdot \text{cm}$ and dielec. constant ≤3.5; the resin particles being obtained by polymerizing a solution of a monofunctional monomer (A), a polyfunctional monomer (D), and a dispersion-stabilizing resin(s) in a nonag. solvent. The dispersion-stabilizing resin is a graft copolymer obtained by polymerizing a monofunctional macromonomer with CHb1:Cb1(X2-Y2) [X2 = CO2, OCO, (CH2)YOCO, (NH2)YCO2 (Y = 1-3), O; Y2 = C≥8 aliphatic; b1, b2 = H, halo, C1-6 hydrocarbon moiety]. The above macromonomer (weight average mol. weight 1 + 103-2 + 104) is an A-B block copolymer having (1) an A block based on ≥1 polar groups containing polymer component and (or) a polymer component similar to monomer (A) above, and a B block based on [CHalCa2(X1-Y1)] $[X1 = CO2, OCO, (CH2) \times OCO, (CH2) \times CO2 (x = 1-3), O, SO2, CO,$ etc.; Y1 = hydrocarbon group; a1, a2 = H, halo, CN, C1-8 hydrocarbon, CO2Z1, CO2Z1 interposed by C1-8 hydrocarbon moiety, (Z1 = H, C1-22 hydrocarbon)] with a C-C double bond terminating the B block. The developer shows good dispersion stability, and good redispersibility and fixing properties, and is useful in electrophotog. lithog. platemaking.

IC ICM G03G009-13

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other

Reprographic Processes)

ST electrophotog liq developer resin dispersion; acrylic resin electrophotog

lig developer

IT Acrylic polymers, uses

RL: USES (Uses)

(electrophotog. liquid toner using)

IT Electrophotographic developers

(toners, liquid, preparation of)

IT 9082-26-2, Divinylbenzene-styrene-vinyl acetate copolymer 58698-55-8

73784-91-5 100942-95-8 122083-53-8 150997-12-9 150997-13-0

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150997-14-1
                   150997-15-2
     RL: USES (Uses)
        (latex from, for liquid electrostatog. developer)
     25951-78-4, Divinyl adipate-vinyl acetate copolymer
                                                           27015-60-7,
Ethylene
     glycol dimethacrylate-vinyl acetate copolymer
                                                     30285-39-3
                                                                  61509-
38-4,
                                                           89761-87-5
     Divinylbenzene-vinyl acetate copolymer 62477-55-8
     150344-27-7
                  150344-28-8
                                150344-29-9
                                               150344-30-2
                                                             150469-17-3
    RL: USES (Uses)
        (latex particles from, for lithog. liquid electrostatog.
developer)
     139598-53-1P, Ethylmethacrylate-methacrylic acid-
octadecylmethacrylate
                             139598-54-2P ·139598-55-3P
                                                           139598-56-4P
    block graft copolymer
                                  139598-59-7P
                                                  139598-60-0P
                                                                 139598-
     139598-57-5P
                   139598-58-6P
61-1P
    139598-62-2P
                                                  139598-65-5P
                                                                 139598-
                   139598-63-3P
                                  139598-64-4P
66-6P
                                                  139598-71-3P
    139598-68-8P
                   139598-69-9P
                                  139598-70-2P
                                                                 139598-
72-4P
                                                  139598-79-1P
                   139598-76-8P
                                                                 139598-
    139598-75-7P
                                  139598-77-9P
80-4P
                                                  139598-85-9P
                                                                 139687-
    139598-81-5P
                   139598-82-6P
                                   139598-83-7P
39-1P
                    147067-02-5P 147127-63-7P
                                                150958-17-1P
     147045-28-1P
     150958-19-3P
    RL: TEM (Technical or engineered material use); PREP (Preparation);
USES
     (Uses)
        (preparation of, as dispersion-stabilizing resin)
     138115-34-1DP, Ethylmethacrylate-triphenylmethylmethacrylate block
IT
     copolymer, carboxylation product, ester with 2-hydroxyethyl
methacrylate,
                          138232-67-4DP, Benzylmethacrylate-
    hydrolysis product
butylmethacrylate
    block copolymer, reaction product with 4-bromomethylstyrene,
reduction product
     139357-83-8DP, reaction product with ethylene oxide, ester with
                                            139598-52-0DP, Acrylic
    methacrylic acid, hydrolysis product
     acid-octadecylmethacrylate block copolymer, hydroxy-terminated,
reaction
    product with 2-isocyanatoethylmethacrylate 150958-16-0DP, reaction
    product with 4-bromomethylstyrene, hydrolysis product
    RL: PREP (Preparation)
        (preparation of, as macromonomer)
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